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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Taka-Aki Sato
Serial No. : 09/327,750 Examiner: J.A. Goldberg
Filed : June 7, 1999 Group Art Unit: 1634
For : GENE ENCODING NADE, P75^{NTR}-ASSOCIATED CALL DEATH
EXECUTOR AND USES THEREOF

1185 Avenue of the Americas
New York, NY 10036
September 27, 2002

Assistant Commissioner for Patents
Washington, D.C. 20231

STATEMENT IN ACCORDANCE WITH 37 C.F.R. § 1.821(f)

In accordance with 37 C.F.R. § 1.821(f), I hereby certify that the computer readable form containing the nucleic acid and/or amino acid sequences required by 37 C.F.R. § 1.821(e) and submitted herewith contains the same information as the written "Sequence Listing" (Exhibit A) submitted herewith, and does not contain any new matter. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardize the validity of this application or any patent that issues thereon.

Respectfully submitted,

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SEQUENCE LISTING

<110> Sato, Taki-Aki

<120> GENE ENCODING NADE, P75NTR- ASSOCIATED CELL DEATH EXECUTOR
AND USES THEREOF

<130> 0575/59131/JPW/AJM/HA

<140> 09/327,750

<141> 1999-06-07

<160> 45

<170> PatentIn version 3.0

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<213> MOUSE

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36

<210> 2

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27

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<210> 9

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26

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<211> 124

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<400> 12

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Asn Gly Glu Glu Asp Arg Pro Val Gly Gly Gly Glu Gly His Gln Pro
20 25 30

Ala Gly Asn Asn Asn Asn Asn Asn His Asn His Asn His Asn His His
35 40 45

Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile
50 55 60

Pro Asn Arg Gln Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met
65 70 75 80

Glu Met Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu
85 90 95

Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn
100 105 110

His His Asp His His Asp Glu Phe Cys Leu Met Pro
115 120

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<212> PRT

<213> HUMAN

<400> 13

Met Ala Asn Ile His Gln Glu Asn Glu Glu Met Glu Gln Pro Met Gln
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20 25 30

Ala Gly Asn Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg
35 40 45

Trp Ala Ile Pro Asn Arg Gln Ile Asn Asp Gly Met Gly Gly Asp Gly
50 55 60

Asp Asp Met Glu Ile Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys
65 70 75 80

Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu
85 90 95

Leu Ser Asn His His Asp His His Asp Glu Phe Cys Leu Met Pro
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<213> Mouse

<400> 15

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<213> Mouse

<400> 16

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<400> 17

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<400> 18

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<212> PRT

<213> MOUSE

<400> 25

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu
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<213> HUMAN

<400> 26

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1 5 10 15

Arg Ile Leu Met Gly Glu Leu Ser Asn His His
20 25

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<213> MOUSE

<400> 27

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aggactacgc cgcaagggat aggcccagaa tagcaaccag gaaacaaaat ctcacatgg 180
ccaatgtcca ccaggaaaac gaagagctgg agcagcccct gcagaatgga caggaagacc 240
gccctgtggg aggaggtgag ggccaccagc ctgctgcaaa caacaacaac aacaaccaca 300
accataacca caaccaccac cgaagaggcc aggetcgccg acttgcccct aactccgat 360
gggccattcc caacaggcag atgaatgacg gggtgggtgg agatggagat gatatggaaa 420
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gtctacgcat ccttatgggg gagctgtcta accaccacga tcacatgat gaattctgcc 540
ttatgccttg acttcggtca ttccccctg agatccatac tgtgactccc gctgtagccc 600
ttttctcgc attttctga catgccttta atgacccgtt tgtggtgagc cttgtgttat 660
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gggaggggct ttaattggag gccccgtaga ggacgcgcgg aacttctaag gtgggaaaaa 180
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aaaatctcat catggcaaat attcaccagg aaaacgaaga gatggagcag cctatgcaga 360
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ggggacaggc tcgccgactt gccctaatt ttcatgggc cataccaat aggcagatca 480
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tctctaata ccatgaccat catgatgaat ttgccttat gccttgactc ctgccattta 660
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ctttactgat ccgtttgtg tgaaccctat gttatttcca tgtgtcaagt ggggtctgtg 780
ttgccagctt ctatttgaag attgccttg cactcagtgt aagtttctgt cagcagtagt 840
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<211> 128

<212> PRT

<213> Mouse

<400> 30

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Arg Glu Pro Ala Val Ala Leu Ile Ser Glu Ala Gly Lys Asn Cys Ala
35 40 45

Pro Arg Gly Gly Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Ala His
50 55 60

Tyr Arg Trp Asp Leu Met Gln Arg Val Gly Glu Pro Gln Gly Arg Met
65 70 75 80

Arg Glu Glu Asn Val Gln Arg Phe Gly Gly Asp Val Arg Gln Leu Met
85 90 95

Glu Lys Leu Arg Glu Arg Gln Leu Ser His Ser Leu Arg Ala Val Ser
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Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
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<210> 31

<211> 128

<212> PRT

<213> Mouse

<400> 31

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 Lys Gly Glu Pro Leu Ala Leu Pro Leu Asn Val Ser Glu Tyr Cys Val
 35 40 45
 Pro Arg Gly Asn Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Leu Gln
 50 55 60
 Tyr Arg Trp Asp Ile Met His Arg Leu Gly Glu Pro Gln Ala Arg Met
 65 70 75 80
 Arg Glu Glu Asn Met Glu Arg Ile Gly Glu Glu Val Arg Gln Leu Met
 85 90 95
 Glu Lys Leu Arg Glu Lys Gln Leu Ser His Ser Leu Arg Ala Val Ser
 100 105 110
 Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
 115 120 125

<210> 32

<211> 125

<212> PRT

<213> Mouse

<400> 32

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 Pro Leu Ala Leu Pro Leu Asp Ala Gly Glu Tyr Cys Val Pro Arg Gly
 35 40 45
 Asn Arg Arg Arg Phe Pro Val Arg Gln Pro Ile Leu Gln Tyr Arg Trp
 50 55 60
 Asp Ile Met His Arg Leu Gly Glu Pro Gln Ala Arg Met Arg Glu Glu
 65 70 75 80

Asn Met Glu Arg Ile Gly Glu Glu Val Arg Gln Leu Met Glu Lys Leu
85 90 95

Arg Glu Lys Gln Leu Ser His Ser Leu Arg Ala Val Ser Thr Asp Pro
100 105 110

Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
115 120 125

<210> 33

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<213> RAT

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Arg Glu Pro Val Val Ala Pro Thr Phe Glu Ala Gly Lys Asn Cys Ala
35 40 45

Pro Arg Gly Gly Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Ser His
50 55 60

Tyr Arg Trp Asp Leu Met His Arg Val Gly Glu Pro Gln Gly Arg Met
65 70 75 80

Arg Glu Glu Asn Val Gln Arg Phe Gly Glu Asp Met Arg Gln Leu Met
85 90 95

Glu Lys Leu Arg Glu Arg Gln Leu Ser His Ser Leu Arg Ala Val Ser
100 105 110

Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
115 120 125

<210> 34

<211> 118

<212> PRT

<213> Mouse

<400> 34

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Asp Lys Lys Asn Lys Lys Gly Gly Lys Ala Ser Lys Gln Ser Glu Glu
20 25 30

Glu Ser His His Leu Glu Glu Val Glu Asn Lys Lys Pro Gly Gly Asn
35 40 45

Val Arg Arg Lys Val Arg Arg Leu Val Pro Asn Phe Leu Trp Ala Ile
50 55 60

Pro Asn Arg His Val Asp His Ser Glu Gly Gly Glu Glu Val Gly Arg
65 70 75 80

Phe Val Gly Gln Val Met Glu Ala Lys Arg Lys Ser Lys Glu Gln Gln
85 90 95

Met Arg Pro Tyr Thr Arg Phe Arg Thr Pro Glu Pro Asp Asn His Tyr
100 105 110

Asp Phe Cys Leu Ile Pro
115

<210> 35

<211> 117

<212> PRT

<213> Mouse

<400> 35

Met Ala Ser Lys Phe Lys Gln Val Ile Leu Asp Leu Thr Val Glu Lys Asp
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Lys Lys Asp Lys Arg Gly Gly Lys Ala Ser Lys Gln Ser Glu Glu Glu
20 25 30

Pro His His Leu Glu Glu Val Glu Asn Lys Lys Pro Gly Gly Asn Val

35 40 45
 Arg Arg Lys Val Arg Arg Leu Val Pro Asn Phe Leu Trp Ala Ile Pro
 50 55 60
 Asn Arg His Val Asp Arg Asn Glu Gly Gly Glu Asp Val Gly Arg Phe
 65 70 75 80
 Val Val Gln Gly Thr Glu Val Lys Arg Lys Thr Thr Glu Gln Gln Val
 85 90 95
 Arg Pro Tyr Arg Arg Phe Arg Thr Pro Glu Pro Asp Asn His Tyr Asp
 100 105 110
 Phe Cys Leu Ile Pro
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<210> 36

<211> 110

<212> PRT

<213> Mouse

<400> 36

Met Ala Asn Ile His Gln Glu Asn Glu Glu Met Glu Gln Pro Met Gln
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 Asn Gly Glu Glu Asp Arg Pro Leu Gly Gly Gly Glu Gly His Gln Pro
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 Ala Gly Asn Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp
 35 40 45
 Ala Ile Pro Asn Arg Gln Ile Asn Asp Gly Met Gly Gly Asp Gly Asp
 50 55 60
 Asp Met Glu Ile Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys Leu
 65 70 75 80
 Arg Glu Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu Leu
 85 90 95
 Ser Asn His His Asp His His Asp Glu Phe Cys Leu Met Pro
 100 105 110

<210> 37

<211> 120

<212> PRT

<213> Mouse

<400> 37

Met Glu Gln Pro Leu Gln Asn Gly Gln Glu Asp Arg Pro Val Gly Gly
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Gly Glu Gly His Gln Pro Ala Ala Ala Asn Asn Asn His Asn His Asn His
20 25 30

Asn His Asn His Ser His Asn His Asn His His Arg Arg Gly Gln
35 40 45

Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile Pro Asn Arg Gln
50 55 60

Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met Glu Met Phe Met
65 70 75 80

Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
85 90 95

Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn His His Asp His
100 105 110

His Asp Glu Phe Cys Leu Met Pro
115 120

<210> 38

<211> 122

<212> PRT

<213> Mouse

<400> 38

Met Ala Asn Val His Gln Glu Asn Glu Glu Met Glu Gln Pro Leu Gln
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Asn Gly Gln Glu Asp Arg Pro Val Gly Gly Gly Glu Gly His Gln Pro
20 25 30

Ala Ala Asn Asn Asn Asn Asn Asn His Asn His Asn His Asn His His Arg Arg
35 40 45

Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile Pro Asn
50 55 60

Arg Gln Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met Glu Met
65 70 75 80

Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln
85 90 95

Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn His His
100 105 110

Asp His His Asp Glu Phe Cys Leu Met Pro
115 120

<210> 39

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<212> PRT

<213> Mouse

<400> 39

Met Glu Asn Val Pro Lys Glu Asn Lys Val Val Glu Lys Ala Pro Val
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Gln Asn Glu Ala Pro Ala Leu Gly Gly Gly Glu Tyr Gln Glu Pro Gly
20 25 30

Gly Asn Val Lys Gly Val Trp Ala Pro Pro Ala Pro Gly Phe Gly Glu
35 40 45

Asp Val Pro Asn Arg Leu Val Asp Asn Ile Asp Met Ile Asp Gly Asp
50 55 60

Gly Asp Asp Met Glu Arg Phe Met Glu Glu Met Arg Glu Leu Arg Arg
65 70 75 80

Lys Ile Arg Glu Leu Gln Leu Arg Tyr Ser Leu Arg Ile Leu Ile Gly
85 90 95

Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
100 105 110

<210> 40

<211> 13

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<213> MOUSE

<400> 40

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
1 5 10

<210> 41

<211> 13

<212> PRT

<213> HUMAN

<400> 41

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
1 5 10

<210> 42

<211> 10

<212> PRT

<213> Mouse

<400> 42

Leu Pro Pro Leu Glu Arg Leu Thr Leu Asp
1 5 10

<210> 43

<211> 12

<212> PRT

<213> MOUSE

<400> 43

Ala Leu Gln Lys Lys Leu Glu Glu Leu Glu Leu Asp
1 5 10

<210> 44

<211> 12

<212> PRT

<213> Mouse

<400> 44

Leu Thr Met Lys Glu Val Glu Glu Leu Glu Leu Leu
1 5 10

<210> 45

<211> 10

<212> PRT

<213> Mouse

<400> 45

Leu Ala Leu Lys Leu Ala Gly Leu Asp Ile
1 5 10